CIVIL PRO, BANGALORE Address: # 4, 7TH MAIN, MALLESWARAM BANGALORE 560 003, KARNATAKA			
Job Code	**008-16-000036**	**DATA ENTRY SHEET**	
CP Reference ID	**2020-09-19-62**	**Date:**	**19-09-20**
Customer Name	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.		
Customer Address	Project Sub Division, BBMP, Bangalore.		
Name of Work	"Construction of Indoor Stadium with all Amenities at Sahakaranagara in Ward No:08 Kodigehalli, Kodigehalli Sub Division".		
Agency	Sri.Abbu Sambasiva Reddy, #1-B-3, Sree Arcade Layout, 4th Block, DB Sandra, Vidyaranyapura, Bangalore-560097.		
Work Order Ref	EE(Project)/Ynk Zone/WO/114/2017-18		
Work Start Date	**03-01-18**	**Work End Date**	**29-11-18**
Remark	**Dates Given**		
Report Prepared By	**Aishwarya V**		

Samples Details

SAMPLE NAME		SAMPLE DETAILS			CP ID
		Qnty	Sets	Date	
CEMENT				01-08-20	CP-2020-09-19-62
C.A 40MM, 20MM				01-08-20	CP-2020-09-19-62
F.A				01-08-20	CP-2020-09-19-62
STEEL				04-08-20	CP-2020-09-19-62
Copping Concrete	M15	8.17	2	06-08-20	CP-2020-09-19-62
SF Column Concrete	M25	4.12	1	18-05-20	CP-2020-09-19-62
SF Tie Beam Concrete	M25	59.75	2	03-06-20	CP-2020-09-19-62
SF Gutter Beam Bottom Concrete	M25		2	09-06-20	CP-2020-09-19-62
SF Gutter Beam & Wall Concrete	M25		1	12-06-20	CP-2020-09-19-62
Below SSM Concrete	M25	30.57	3	21-07-20	CP-2020-09-19-62
GF Cut Lintel Concrete	M25	1.52	1	28-07-20	CP-2020-09-19-62
FF Cut Lintel Concrete	M25	1.59	1	21-08-20	CP-2020-09-19-62
BLOCK 400X200X200				01-08-20	CP-2020-09-19-62

BLOCK 400X100X200			01-08-20	CP-2020-09-19-62
Mortar Sand			26-08-20	CP-2020-09-19-62
Plaster Sand			26-08-20	CP-2020-09-19-62
Agency Representative Name	Inddor Stadium Forth & Part		Phone No	

QC ABSTRACT

NAME OF WORK: Construction of Indoor Stadium with all Amenities at Sahakaranagara in Ward No:08 Kodigehalli, Kodigehalli Sub Division

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Block(400*200*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
7	Block(400*100*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
8	PCC(M15)	Compressive Strength(7days and 28days)	2 set /6-15 cum	8.17	4	4
9	RCC(M25)	Compressive Strength(7days and 28days)	1 set /1-5 cum	4.12	2	2
10	RMC(M25)	Compressive Strength(7days and 28days)	5 set /51-100 cum	59.75	10	10
11	RCC(M25)	Compressive Strength(7days and 28days)	1 set /1-5 cum	1.52	2	2

12	RCC(M25)	Compressive Strength(7days and 28days)	1 set /1-5 cum	1.59	2	2
13	RCC(M25)	Compressive Strength(7days and 28days)	3 set /16-30 cum	30.57	6	6
14	Mortar Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		Compacted Bulk Density	One Test		1	1
		Loose Bulk Density	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
15	Plaster Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2020-09-19-62** **Date: 03-08-20**

Project Name : "Construction of Indoor Stadium with all Amenities at Sahakaranagara in Ward No:08 Kodigehalli, Kodigehalli Sub Division".

Agency : Sri.Abbu Sambasiva Reddy, #1-B-3, Sree Arcade Layout, 4th Block, DB Sandra, Vidyaranyapura, Bangalore-560097.

Customer's Reference : EE(Project)/Ynk Zone/WO/114/2017-18

Date of Receipt : 01-08-20

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6

Date of test : 01-08-20

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.94	–
2	Finess by Air permeablity method (m^2/kg,Min)	285.3	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	150 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

FOR CIVIL Pro.

R KARTHIK RECHAN
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Quality Manager

****End of Report****

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 29-08-20

Lab ID	:	**CP-2020-09-19-62**
Project Name	:	"Construction of Indoor Stadium with all Amenities at Sahakaranagara in Ward No:08 Kodigehalli, Kodigehalli Sub Division".
Agency	:	Sri.Abbu Sambasiva Reddy, #1-B-3, Sree Arcade Layout, 4th Block, DB Sandra, Vidyaranyapura, Bangalore-560097.
Customer's Reference	:	EE(Project)/Ynk Zone/WO/114/2017-18
Date of Receipt	:	01-08-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	01-08-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	59.0N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-09-19-62** **Date: 04-08-20**
Project Name	:	"Construction of Indoor Stadium with all Amenities at Sahakaranagara in Ward No:08 Kodigehalli, Kodigehalli Sub Division".
Agency	:	Sri.Abbu Sambasiva Reddy, #1-B-3, Sree Arcade Layout, 4th Block, DB Sandra, Vidyaranyapura, Bangalore-560097.
Customer's Reference	:	EE(Project)/Ynk Zone/WO/114/2017-18
Date of Receipt	:	01-08-20
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	01-08-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	254	254	1.7	98.3	90-100
3	20 mm	5422	5676	37.8	62.2	30-70
4	10 mm	4132	9808	65.4	34.6	10-35
5	4.75 mm	4854	14662	97.7	2.3	0-5
6	Pan	338	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-09-19-62** **Date: 04-08-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**12.4**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**11.8**	
3	Specific Gravity	**2.68**	_
4	Bulk Density(Loose) (Kg/l)	**1.48**	_
5	Bulk Density(Compacted) (Kg/l)	**1.52**	_
6	Water Absorption(%)	**0.22**	_

*The results obtained are satisfactory as per standard requirements.

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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-09-19-62** **Date: 03-08-20**
Project Name	:	"Construction of Indoor Stadium with all Amenities at Sahakaranagara in Ward No:08 Kodigehalli, Kodigehalli Sub Division".
Agency	:	Sri.Abbu Sambasiva Reddy, #1-B-3, Sree Arcade Layout, 4th Block, DB Sandra, Vidyaranyapura, Bangalore-560097.
Customer Reference	:	EE(Project)/Ynk Zone/WO/114/2017-18
Date of Receipt	:	01-08-20
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	01-08-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	235	235	4.7	95.3	90-100
3	10 mm	2470	2705	54.1	45.9	25-55
4	4.75 mm	2133	4838	96.8	3.2	0-10
5	Pan	162	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-09-19-62** **Date: 03-08-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.5	
3	Specific Gravity	2.67	–
4	Bulk Density(Loose) (Kg/l)	1.54	–
5	Bulk Density(Compacted) (Kg/l)	1.58	–
6	Water Absorption(%)	0.22	–
7	Aggregate crushing Value(%)	24.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

* The results obtained are satisfactory as per standard requirements.

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End of Report

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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2020-09-19-62** **Date: 03-08-20**

Project Name : "Construction of Indoor Stadium with all Amenities at Sahakaranagara in Ward No:08 Kodigehalli, Kodigehalli Sub Division".

Agency : Sri.Abbu Sambasiva Reddy, #1-B-3, Sree Arcade Layout, 4th Block, DB Sandra, Vidyaranyapura, Bangalore-560097.

Customer's Reference : EE(Project)/Ynk Zone/WO/114/2017-18

Date of Receipt : 01-08-20

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 01-08-20

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	21	21	2.1	97.9	90-100	90-100	90-100	95-100
3	2.36 mm	185	206	20.6	79.4	60-95	75-100	85-100	95-100
4	1.18 mm	211	417	41.7	58.3	30-70	55-90	75-100	90-100
5	600 micron	158	575	57.5	42.5	15-34	35-59	60-79	80-100
6	300 micron	236	811	81.1	18.9	5-20	8-30	12-40	15-50
7	150 micron	146	957	95.7	4.3	0-10	0-10	0-10	0-15
8	Pan	43	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2020-09-19-62**

Date: 03-08-20

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.42	–
2	Specific Gravity	2.53	–
3	Material finer than 75 micron(%)	3.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Date: 04-08-20

Lab ID	:	**CP-2020-09-19-62**
Project Name	:	"Construction of Indoor Stadium with all Amenities at Sahakaranagara in Ward No:08 Kodigehalli, Kodigehalli Sub Division".
Agency	:	Sri.Abbu Sambasiva Reddy, #1-B-3, Sree Arcade Layout, 4th Block, DB Sandra, Vidyaranyapura, Bangalore-560097.
Customer's Reference	:	EE(Project)/Ynk Zone/WO/114/2017-18
Date of Receipt	:	01-08-20
Sample Type/Size	:	Solid concrete blocks size (400X100X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	01-08-20

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	405	98	202	8017	31.907	3979.7	4024.3	Not less than 1800Kg/m^3
2	399	102	203	8262	31.859	3856.2		
3	398	100	200	7960	33.725	4236.8		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

CIVIL Pro Sig..... Date..... BANGALORE

Date: 04-08-20

Lab ID : CP-2020-09-19-62

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	403	103	199	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	401	101	199	
3	401	100	201	
4	401	101	201	
5	400	100	199	
6	400	101	200	
7	402	100	201	
8	403	103	202	
9	402	101	203	
10	403	99	202	
11	401	103	201	
12	404	101	199	
13	403	101	199	
14	401	102	203	
15	403	99	203	
16	403	100	201	
17	399	100	201	
18	404	102	199	
19	400	99	199	
20	401	101	201	
Average of 20	**402**	**101**	**201**	

CIVIL Pro Sig..... Date..... BANGALORE

Lab ID : **CP-2020-09-19-62** **Date: 04-08-20**

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	103	41169	172.1	4.2	4.4
2	401	101	40657	180.5	4.4	
3	401	100	39960	175.6	4.4	
4	401	101	40485	176.7	4.4	
5	400	100	39940	176.3	4.4	
6	400	101	40472	174.3	4.3	
7	402	100	40313	178.4	4.4	
8	403	103	41551	178.4	4.3	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

****End of Report****

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2020-09-19-62** **Date: 04-08-20**
Project Name	:	"Construction of Indoor Stadium with all Amenities at Sahakaranagara in Ward No:08 Kodigehalli, Kodigehalli Sub Division".
Agency	:	Sri.Abbu Sambasiva Reddy, #1-B-3, Sree Arcade Layout, 4th Block, DB Sandra, Vidyaranyapura, Bangalore-560097.
Customer's Reference	:	EE(Project)/Ynk Zone/WO/114/2017-18
Date of Receipt	:	01-08-20
Sample Type/Size	:	Solid concrete blocks size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	01-08-20

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	403	201	200	16201	33.856	2089.8	1977.3	Not less than 1800Kg/m^3
2	402	203	203	16566	31.226	1885.0		
3	400	202	198	15998	31.312	1957.2		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

CIVIL PRO Sig..... Date..... BANGALORE

Lab ID : **CP-2020-09-19-62** **Date: 04-08-20**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	404	200	202	
2	402	202	199	
3	400	201	203	
4	400	202	199	
5	404	203	199	
6	403	203	201	
7	403	199	201	
8	400	201	201	
9	400	200	199	
10	400	199	200	
11	402	200	203	**Length : ± 5mm** **Breadth : ± 3mm** **Height : ± 3mm**
12	401	200	202	
13	401	201	200	
14	400	200	199	
15	400	201	201	
16	399	202	201	
17	399	202	200	
18	400	200	203	
19	400	202	199	
20	403	200	199	
Average of 20	**401**	**201**	**201**	

CIVIL PRO
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Date.....
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Lab ID : **CP-2020-09-19-62** **Date: 04-08-20**

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	200	79985	429.1	5.4	5.3
2	402	202	81349	429.8	5.3	
3	400	201	80295	426.9	5.3	
4	400	202	80987	425.1	5.2	
5	404	203	81851	425.7	5.2	
6	403	203	81756	427.1	5.2	
7	403	199	80207	427.0	5.3	
8	400	201	80320	427.0	5.3	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

* The results obtained are satisfactory as per standard requirements.

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID : **CP-2020-09-19-62** **Date: 05-08-20**

Project Name : "Construction of Indoor Stadium with all Amenities at Sahakaranagara in Ward No:08 Kodigehalli, Kodigehalli Sub Division".

Agency : Sri.Abbu Sambasiva Reddy, #1-B-3, Sree Arcade Layout, 4th Block, DB Sandra, Vidyaranyapura, Bangalore-560097.

Customer's Reference : EE(Project)/Ynk Zone/WO/114/2017-18

Date of Receipt : 04-08-20

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 04-08-20

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	16	1.581	572	674	19.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	20	2.476	584	693	19.0%	Satisfactory	Satisfactory
4	Sunvik	Fe500	25	3.472	597	712	18.0%	Satisfactory	Satisfactory
5	Sunvik	Fe500	32	6.31	597	712	18.0%	Satisfactory	Satisfactory

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-09-19-62** **Date: 13/08/2020**

Project Name : "Construction of Indoor Stadium with all Amenities at Sahakaranagara in Ward No:08 Kodigehalli, Kodigehalli Sub Division".

Agency : Sri.Abbu Sambasiva Reddy, #1-B-3, Sree Arcade Layout, 4th Block, DB Sandra, Vidyaranyapura, Bangalore-560097.

Customer's Reference : EE(Project)/Ynk Zone/WO/114/2017-18

Date of Receipt : 08-08-20

Customer ID : Copping Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/08/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Copping Concrete	M15	06/08/2020	13/08/2020	150.84 X 150.62 X 151.85	22719	**8.304**	272.7	12.0	12.4
2	Copping Concrete	M15	06/08/2020	13/08/2020	149.48 X 149.34 X 149.69	22323	**8.466**	287.8	12.9	
3	Copping Concrete	M15	06/08/2020	13/08/2020	150.06 X 151.29 X 149.17	22702	**8.253**	280.7	12.4	

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

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****End of Report****

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